

HYLANDS et al.  
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(b) submitting the data obtained from the or each NMR spectrum to a multivariate analysis to generate one or more points on a score plot.

5. (Amended) A process according to claim 1 wherein the multivariate analysis is principal component analysis (PCA).

6. (Amended) A process according to claim 1 wherein the proteomics analysis comprises:

- A1
- (i) providing a target cell selected according to the clinical indication in which the medicinal plant is active and incubating the target cells with the test solution or test extract; and
  - (ii) subjecting the incubated cells to gel electrophoresis on a 2-D gel and observing the change in protein expression in the cells as a result of exposure to the said solution or extract.

7. (Amended) A process according to claim 1 which further comprises purifying the test solution or test extract of the sample of the medicinal plant material prior to carrying out the combination of NMR spectroscopy and computer-based pattern recognition.

8. (Amended) A process according to claim 1 wherein the medicinal plant material consists of, or is derived from, a whole plant, a part of a plant, a plant extract or a plant fraction.

A2 12. (Amended) A process according to claim 1 wherein the plant material is derived from, or consists of, a mixture of two or more different plants.